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REPORT NO. 7

11: 25 74

ROOF STANT SECTION

Cotton Fiber and Processing Test Results

HWF OF





Consumer and Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 November 13,1970

This is the seventh of a series of reports of fiber and processing test results from the 1970 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as AID 344, Summary of "Cotton Fiber and Processing Test Results, Crop of 1969, May 1970." These reports are published by the Standardization Section, Cotton Division, Consumer and Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1970

Discussion of Test Results

Cotton Division laboratories of the Consumer and Marketing Service, USDA, report that average values for medium staple samples tested through October 6 show little change in fiber properties compared to last season. Zero gage fiber strength is lower than a year ago while 1/8-inch gage strength is about the same. Yarns spun from these samples are weaker with lower appearance grades and about the same number of imperfections. Average spinning potential yarn number is higher than last season.

Southwestern short staple samples show longer fibers than a year ago. Fiber strength at 1/8-inch gage is higher. Shirley Analyzer nonlint content is higher while picker and card waste is a little lower. Yarn quality is about the same as last season. Average spinning potential yarn number is higher.

Southeastern medium staple samples are shorter and finer than last season. Picker and card waste is lower while Shirley Analyzer nonlint content is slightly higher. Yarn strength and appearance is about the same as a year ago but the yarns show fewer imperfections.

South Central medium staple samples are shorter than last season. Fibers are weaker and picker and card waste is lower. Yarns spun from these samples are weaker while other yarn properties are about the same.

Southwestern medium staple samples are longer than a year ago. Zero gage fiber strength is lower while 1/8-inch gage strength is higher. Shirley Analyzer nonlint content is higher. Yarns spun from these samples are weaker and show more imperfections. Average spinning potential yarn number is considerably higher than last year.

Western medium staple samples show little fiber property change from 1969. Zero gage fiber strength is a little lower. Picker and card waste is lower. Yarns spun from these samples are weaker. Average spinning potential yarn number is higher.

Western long staple samples tested to date show finer fibers than a year ago. Fiber strength at 1/8-inch gage is stronger. Shirley Analyzer nonlint content and picker and card waste are lower. Yarns show lower appearance grades and more imperfections than last year.

Averages of fiber and processing tests from selected gin points in the United States through November 6, 1970

7			Fibe	iber test	results				Processing test results	ng test	results	70
Staple group Area, and	Lots	Fibrograph		Mike fine	Fiber	strength			Yar	Yarn quality	ty	Grafin
Crop year	tested	2.5% span	50/2.5 unif.	ness	Zero gage	1/8" gage	S A nonlint	P&C waste	Skein str.	Appear-Imperf- ance ections	Imperf- ections	Potent.
Short Staple:	No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No. Yarn	Yarn No.
1969 1970 Medium Staple:	21 16	0.91	94	t. 4 7. 4	88 87	19.8	6 6 6 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6.9	89 91	711	25 24	38 45
Southeast 1969 1970	45 59	1.10	74 74 74	44.20	84 83	23.0	33.77	7.1	105	102	22 17	61 62
1969 1970	108	1.10	54 54	4 4 8 8 8	85 85	23.1	0 0 0 0	6.4	109 10 2	114 112	18	61 63
1970	31 34	1.04	94 94	4.5	88	22.1 22.8	3.0	6.0 6.0	109	123 120	18	-4- 69
	13	1.09	7 1 1 1	4.4.5	88	24.6 24.6	8.0 7.0	6.0	117	115	57	49 49
1969 1970	197	1.09	5 ⁴ 5 ⁴	4.7	86 84	23.0	3.9	6.5	109	113	19	61 64
Southeast 1970	11	1.15	45	4.7	. 82	23.3	4.6	8.7	110	104	20	99
South Central 1970	٦	1.13	43	4.9	98	22.6	3.9	8.7	108	100	56	29
West 1969 1970	m m	1.18	45 72	4. w 0. o	97	27.5 28.6	w a r. o.	8.1	135 136	100	20 34	77
Significant dif- ference 2/		0.02	ત	٥.	a	0.5	0.5	0.5	4(22s) 2(50s)	5	Q	m

These guides are based upon averages of a number of lots and are not applicable to individual samples. Minimum differences considered to be significant for comparisons in this table. Based on a limited number of samples of modal quality

-5-

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1970

1	1		1	}								
		Spin. Poten-		읾		33	32	52	43	38	38	
		ctins	8s or 22sor 74 tx 27 tx	<u></u>		27	20	4 80	22	16	22	
	rus	Imprfect'ns	8s or 74 tx	외		38	30	75	36	53	45	
	rded Ya		22sor 27 tx	읾		120	110	80	120	120	120	
	Processing Test Results - Carded Yarns	Appearance Index	8s or 74 tx	외		120	120	110	120	13ò	120	
	t Resul	lon	22s or 27 tx	Pct		6.4	9.4	5.3	6.1	5.1	5.7	
	ing Tes	Elongation	8s or 22 74 tx 27	Pct 1		5.9	5.6	6.1	6.8	4.9	6.8	
	rocess		22s or 8 27 tx 7	sq-I		18	92	96	06	06	87	
		Strength	8s or 27	sq.		ENT 261	259	307	303	300	ENT 291	
			Waste 8	Pet		99 PERCENT 6.7 261	100 PERCENT 7.8 259	100 PERCENT 7.9 307	100 PERCENT 5.9 303	85 PERCENT 6.2 300	99 PERCENT 6.0 291	
		Color Raw Stock P & C								80		
		Color w Stoc	Yel	읽		4	Ŋ	m	4	4	4	
		Raw	Gra	읾		4	4	'n	2	2	2	
		S.A.		Pet		3.2	4.3	, 9•9	3.0	PRF 3.0	3.6	
	ts	Elon-	1/8"	Pct		57	57	GL 16 5.1	611	STRMPRF 5.3 3.	7.5	
	Fiber Test Results	er gth	1/8" Gage	G/tex		LANKART 19.8	LANKART 20.4	WATSON GL 16 22.1 5.1	LANKART 21.3	WESTERN 19.8	LANKART 20.4	
	Fiber T	Fiber Strength	Zero Gage	Mpsi		85	89	92	88	80	82	
		Mike		Rdg		4.5	5.0	3. 8	4.5	6.4	5.0	
		tal raph	Unif	Pet		43	45	45	45	94	46	
		Digital Fibrograph	2.5% span	되		0.88	0.92	1.04	0.90	0.93	06.0	
			o,	32s	AR EA	56	30	34	30	30	30	
	a, n		Σ.	ΜI	∢	45		52	A S 32	32	32	
	roduction Area Classification	& Sample Number	Code		X A S		4		TEXA SP			
	ctionsific	le R	Grade Name & Code		STE	ر ۲	L T	Y OR	ST .	E L	ORD	
	Production Area, Classification	Samp	Nam		SOUTHWESTERN CENTRAL TEXAS	FORNEY 2 SLM LT SP	ITASCA 2 SLM LT SP 42	LA PRYOR 3 LM LT SP	NORTHWEST TEXAS ANSON 1 MID LT SP 3	ROSCOE 1 MID LT SP	STAMFORD 1 MID LT SP	
			No		SOU	2 4	1 2	3 6	NOR	A _	1	

Table 3 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970

1	1.		1					-6	,-							
	Spin.	Poten- tial	81		55.	53	09	57	29	68	9	9	57	53	9	65
	Imprfect'ns	50s or			16	14	21	28	21	20	7	œ	15	15 35	20	111
arns	Imprf	22s or	1		19	12	25	31	25	32	6	1.1	23	19	54	41
Carded Yarns	ance	Os or	1		80	06	80	70	80	70	06	06	80	70	80	06
1	Appearance	22s or	<u></u> 81		06	110	100	06	100	100	110	110	100	90	100	011
st Results	tion	50s or	اد		4.5	4.3	5.5	5.0	5.2	5.2	4•3	5.1	*	4.5	5.4	5.2
sing Test	Elongation	22s or	اد		6.3	5.8	7.0	4.9	6.5	9.9	5.8	6.3	6.2	5.8	9.9	8 . 8
Processing	lgth	50s or	1		27	28	33	35	35	40	31	31	53	25	36	36
	P & C Strength	22s or	131		85 PERCENT 6.9 88	85 PERCENT 7.2 96	85 PERCENT 6.0 99	80 PERCENT 7.6 101	80 PERCENT 7.1 100	99 PERCENT 6.7 108	90 PERCENT 4.9 97	80 PERCENT 6.8 96	95 PERCENT 6.2 93	80 PERCENT 7.8 82 9.0 91	100 PERCENT 7.7 105	100 PERCENT 8.0 106
			일		φ.	ω - κ	ω ω	- ~	ω ~	φ.	9	4 m	9	4 E	3	3 10
	Color	Gra	일		4	۳	۳	۳	4	ю	-	۳	m	m m	2	2
	S.A.	Non- Lint	Ret		3.7	3.9	3.0	4.4	3.8	3.4	1.5	3.6	3 2.8	W 60	4.0	5. 8
v ₂	Elon-	gat'n 1/8"	Ret		NE 16 5.7	1032B 4.9	APINE 16 5 6.6	5.8	201	417	413	KING II	LLE 213	100A 5.7 5.5	201	201
t Results	1. 1. 1.	1/8" Gage	G/tex		DELTAPINE 23.1 5.	MCNAIR 22.3	0EL TAP I 22.5	EMPIRE 21.4	COKER 2	COKER 4	COKER 4	DIXIE K 21.3	STONEVILLE 22.0 5.	COKER 1 22.7 22.0	COKER 2	COKER 2
Fiber Test Re	Fiber	Zero 1/ Gage Ga	Mpsi		82	98	18	81	18	81	98	80	18	82	82	80
단		Mike	Rdg		4.5	4.9	4.2	3.5	4.5	4.1	4.	4.6	6.4	4.6	4.5	8.
	1,000	Unif.	Bct		4	94	45	43	4	45	45	45	45	4 4 9	45	1.4
	Digital	2.5% Unispan	테		1.06	1.01	1.10	1.04	1.05	1.14	1.05	1.08	1.06	1.04	1.10	1.08
	•	Stple	32s	AREA	34	33	34	34	34	35	34	34	34	34	34	34
rea,	er			Ā	45	51	41	51	4.2	51	31	52	45	42	51	45
Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTHEASTERN	ALABAMA ATMORE 3 SLM LT SP	CENTREVILLE 2 LM	CHEROKEE 3 SLM	DUTTON 1 LM	FAYETTE 2 SLM LT SP	HOLTVILLE 3 LM	HURTSBORD 3 MID	LA FAYETTE 2 LM LT SP	LEIGHTON 3 SLM LT SP	RED LEVEL 1 SLM LT SP 2 LM LT SP	ST. CLAIR 3 LM	GEORGIA COLBERT 2 SLM LT SP

Table 3 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970 -- (Continued)

1	١									-7-								
		Spin.	roten- tial	읾			9	99	9	99	65	99	59	49	64		69	99
		ct'ns	50s or 12 tx	읽			19	4	13	15	13	10	17	20	13		Ξ	12
Sus		Imprfect'ns	22s or 5	외			22	1	11	21	18	91	22	33	17 24		16	16
Carded Yarns	-		x or	OI.			06	90	80	06	06	06	06	70	80		100	06
1		Appearance Index	22s or 50s 27 tx 12 t				100	110	100	100	110	100	100	06	110		120	120
sults	-	Ap	٠.									3		0				3 1
st Re		ation	50s on 12 tx	Pet			5.2	4.8	4.3	5.3	5.7	3	4.9	5.0	5.2		4.4	4
Processing Test Results	0	Elongation	22s or 27 tx				6.7	6.2	6.1	6.8	9.9	1.9	9.9	6.5	6.8		5.8	5.5
Process		gth	50s or	1			34	38	33	38	94	38	35	36	39		39	35
		Strength	22s or 5				EN1	ENT 106	ENT 100	PERCENT *	ENT 124	ENT 108	ENT	ENT 102	ENT 110 107		ENT 110	ENT 103
	}	ပ					0 PERCENT 8.4 100	0 PERCENT	0 PERCENT 6.8 100	PERC	100 PERCENT 8.6 124	0 PERCENT	100 PERCENT 7.1 100	90 PERCENT 7.4 102	100 PERCENT 6.4 110 6.7 107		100 PERCENT 5.8 110	PERCENT
-	-	R & C	Waste	Pct			100	90	90	100 PE	100	100	100	90			100	95
		Color Raw Stock	Yel	욁			m	æ	ю	2	2	E.	m	ю	w w		E	æ
		Raw	Gra	욁			4	-	2	2	2	2	2	3	0 W		m	س
		S.A.	Non- Lint	Pet			4.4	2.2	3.9	4.9	6.1	3.5	4.3	3.9	3.7		3.5	3.2
60		Elon-	gat'n 1/8"	Pet			5.5	413	201	1032B 5.7	4.7	201	201	417	4104 5.6 5.8		LLE 213 6.5	DELTAPINE 16 23.6 6.6 3.2 00 percent in the area
Results				/tex			IPIRE	COKER 4	COKER 2	CNAIR 23.0	1-149	COK ER 2	OKER 2	COKER 4	COKER 4 22.8 21.9		STONEVILLE 22.9 6.1	LTAPI 3.6
	- 1	Fiber	1/ Ga	បា			m v	22 %		¥ 7	TH 2		O					0E 2
Fiber Test		Str	Zero Gage	Mpsi			82	87	86	80	86	81	83	83	984		82	84
			Mike	Rdg			4.3	4.6	4.5	4.3	4.5	4.7	4.	4.1	4.4		4. 8	5.0
		l aph	Unif.	Pet	nued)		45	14	44	94	64	41	94	44	45		4 6	43
		Digital Fibrograph	2.5% span	티	AREA(Continued)		1.04	1.08	1.04	1.04	11.11	1.10	1.08	1.14	1.13		1.10	DE 51 34 1.09 43 5.0 84 2
			Stple	32s	E A	3)	34]	34]	34	34	35	34 1	35 1	35	35	AREA	35	34
a,	r.		St	in in	AR	inue	51	31	41	51	51	41	51	5.5	51	Ą	41	51
n Are	catic	umber	oge		Z	(Cont		,,,	,	INA		7	INA		, ,	3AL	,	C
Production Area,	Classification	& Sample Number	No Grade Name & Code		SOUTHEASTERN	GEORGIA (Continued)	HARALSON 1 LM	MUSELLA 2 MID	TENNILLE 3 SLM	NORTH CAROLINA LAURINBURG 2 LM	PINEVILLE 2 LM	SHELBY 2 SLM	SOUTH CAROLINA ABBEVILLE 4 LM	MINTURN 4 LM LT SP	YORK 3 SLM 4 LM	SOUTH CENTRAL ARKANSAS	DUMAS 2 SLM	FOREMAN 1 LM

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970 --- (Continued)

										-8-							
		Spin.	Poten- tial	잂		09	63	19	55	49	65	63	49	99	63	59	09
		Imprfect'ns	50s or	네임		20	14	6	12	14	91	24	11	18	17	7	14
	arns	Imprfe	22s or	S S		22	16	12	16	19	20	34	21	56	56	01	11
	Carded Yarns	nce	Os or	3		06	100	100	06	100	0.5	06	80	80	100	06	06
	1	Appearance Index	22s or 5	4		110	120	120	120	120	110	110	110	110	120	110	110
	t Results	ion	50s or 8	7		3.5	4.1	4.5	4.1	4.5	4.5	4.4	4.8	4.7	4.1	5.1	5.1
	ing Test	Elongation	22s or 5	1		5.2	5.6	5.9	5.9	0.9	6.1	5.8	4.0	6.2	5.5	6.8	9.9
	Processing	gth	50s or 2	1		30	32	38	31	34	36	36	39	37	36	35	35
		Strength	22s or 5	4		PERCENT 8 95	PERCENT 2 96	CENT 106	CENT 95	CENT 102	PERCENT 3 101	PERCENT 6 102	CENT 108	CENT 103	PERCENT 3 102	PERCENT 3 104	CENT 105
		ъ 8 С	υ U	Pet		100 PER 5.8	85 PER 5.2	100 PERCENT 5.8 106	100 PERCENT 6.3 95	100 PERCENT 6.6 102	75 PER 5.3	100 PER 6.6	100 PERCENT 5.3 108	100 PERCENT 5.6 103	100 PER 8.3	80 PER 6.3	100 PERCENT 6.7 105
		성		일		3	6	3	3	2	n	3	3	3 1	3	m	<u>.</u>
		Color Raw Sto	Gra	N _O		۳	۳	۳	æ	2	~	ю	2	9	4	2	7
			Non- Lint	Pet		2.8	2.7	3.4	3.2	3.1	2.5	3.8	3 • 2	3.0	0.9	2.9	4.3
						7 A B	213		213			213	9.		213	213	7A 2
	lts	Elon-	gat'n 1/8"	Pet		۷۱۲	VILLE	66	VILLE .	PINE	N I	TONE VILLE 22.5 6.4	PINE 7.	1 NE	TONEVILLE 22.8 6.	TONEVILLE 22.9 5.8	TONEVILLE 22.7 5.2
	st Results	er gth	1/8" Gage	G/tex		21.0	STONE VILLE 21.7	REX SL 22.3	STONE VILLE	DELTA 23.3	DELTA 21.9	STONE 22.5	DELTAPINE 1 22.7 7.5	DELTA 6	STONE 22.8	STONE\ 22.9	STONE 22.7
	Fiber Test	Fiber Strengt	Zero Gage	Mpsi		86	81	82	4	80	83	82	81	82	86	8	83
	F		Mike	Rdg		4.6	4.7	4.4	4.7	4.6	6.9	4.3	4.1	4.0	4.9	4 8	4.5
		ıl raph	Unif.	Pct	ıtinued	4 ت	46	45	4	24	45	45	44	45	49	45	4 8
		Digital Fibrograph	2.5% span	п	(Continued)	1.08	1.09	1.09	1.03	1.08	1.07	1.09	1.10	1.10	1.06	1.04	1.12
			Stple	32s	⋖	34	34	34	34	34	34	34	35	34	35	34	35
	ea, on	ħ	S	(7.3]	ntinu	41	41	41	41	41	41	NCE 51	41	41	51	4.1	51
	Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTH CENTRAL ARE ARKANSAS (Continued)	LEACHVILLE 2 SLM	MARMADUKE 2 SLM	PARKIN 1 SLM	PROCTUR 2 SLM	WYNNE 2 SLM	LOUISIANA CHENEYVILLE 2 SLM	LAKE PROVIDENCE 2 LM 51	MONROE 2 SLM	SHREVEPORT 2 SLM	SICILY ISLAND 2 LM 5	MISSISSIPPI BRUCE 2 SLM	GLENDORA 2 LM
-																	

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970---(Continued)

	1		1						-9-							
	Spin.	Poten- tial	욂			59	67	57	99	64	49	58	58	59		75
	ct'ns	50s or	일 일			25	10	15	14	10	14	13	14	11		12
Yarns	Imprfect'ns	22s or	3			34	12	61	17	14	17	18	20	11		21
Carded Ya	Jce Jce	50s or	301			7.0	80	70	80	80	06	80	06	06		0.5
	Appearance	22s or 50	3 3			06	110	96	100	100	110	100	120	120		120
t Results	ion	50s or 8	5			4.9	6.2	4.8	5.5	5.8	5.7	5.4	3.9	4.6		4.7
ing Test	Elongation	22s or 5	\$ +1			6.5	7.4	6.5	6.7	7.3	6.9	6.5	5.6	6 • 8		6.3
Processing	gth	50s or				34	40	33	39	36	39	34	30	37		40
	Strength	22s or	sq			PERCENT 9 101	100 PERCENT 5.4 111	100 PERCENT 7.1 102	100 PERCENT 6.5 109	PERCENT 0 103 8 106	PERCENT 5 109	90 PERCENT 6.2 98 5.6 102	5.8 91	100 PERCENT 4.4 103		PERCENT 3 111
	₽ 8 0		Pct			100 PI	100 PE	100 P	100 6.5	90 PE 6.0 5.8	100 PF	90 PE	100 P 5.8	100 PI		90 P 5.3
	Color Raw Stock	Yel	읽			М	7	m	2	m m	m	4.60	4	m		m
	Co. Raw	Gra	욁			3	-	2	-	1 2	1	2 2	m	1		-
	S.A.	Non- Lint	Ret			213	2.5	3.4	3.0	2.9	2.3	3.0	3.6	1.9		1.8
w	Elon-	gat'n 1/8"	Et			- m	INE 16	1LLE 21.	INE 16	INE 16 6.8 6.7	INE 16 7.2	5.6	δ. 9	NE 45A		NE 16
st Results		/8" age	G/tex			STONEVILLE 22.8 5.	DELTAPINE 22.6 6.	STONEVILLE 22.8 5.	DELTAPINE 1 23.7 6.9	DELTAPINE 22.6 6. 23.4 6.	DELTAPINE 22.7 7	EMPIRE 21.0 21.2	AUBURN 19.4	DELTAPINE 23.3 7		DELTAPINE 24.5 7
Fiber Test	Fiber	Zero Gage	Mpsi			80	80	82	80	80	78	81 85	75	83		ъ 4
ഥ		Mike	Rdg			4.6	4.4	4.3	4.2	4.3	4.7	4.3	4.2	4.7		5.0
	.l aph	Unif.	Pct	:inued)		45	7,7	77	43	44	45	44	9 4	45		4
	Digital Fibrograph	2.5% span	디	AREA (Continued)	ed)	1.09	1.12	1.08	1.10	1.06	1.12	1.03	1.06	1.04		1.15
		Stple	32s	REA	ıtinu	35	36	35	35	34	34	34	34	34	ARFA	35
ea,	. H				(Continued)	51	N 41	41	41	↓ 41 41	41	41	45	31	a	31
Production Area, Classification	& Sample Number	Grade Name & Code		SOUTH CENTRAL	IddISSISSIW	GREENWOOD 2 LM	PANTHER BURN	ROBINSONVILLE I SLM 4	SCOTT 1 SLM	WATER VALLEY 1 SLM 2 SLM	TENNESSEE BOLIVER 2 SLM	HUNTLAND 1 SLM 2 SLM	MISSOURI SENATH 2 SLM LT SP	SIKESTON 1 MID	SOUTHWESTERN OKLAHOMA	ALTUS 1 MID
1		No	1	S	2						-		Σ		o s	

Table 3 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970 --- (Continued)

ı	1	t					-10-								
	Spin. Poten-	SI SI		62	53	62	19	59	76	75	7.0	75	78	79	75
	50 ect	No No		16	13	13	12	21	15	20	54	12	27	16	12
farns	Imprf 22s or			20	11	19	18	28	24	24	32	11	34	19	16
Carded Yarns	g X G	No		06	06	06	80	06	06	06	80	06	70	06	100
1	Appearance Index 22s or 50s	N N		120	120	120	120	110	120	120	110	110	100	120	120
Processing Test Results	Elongation 2s or 50s or	Pet		4.3	3.9	4.3	5.2	4.1	4.	4.5	4.1	4.	4.	4.6	4.2
ssing T	l a			5.8	5.5	5.7	4.9	5.5	5.5	5.6	5.4	5.6	5.6	5.6	5.4
Proce	Strength 22s or 50s or	sql sql		35	31	38	36	34	8	8	43	46	45	64	4 8
				PERCENT 3 100	CENT 98	CENT 108	PERCENT* 1 104	CENT	PERCENT	PERCENT	PERCENT 0 119	CENT 123	CENT 123	PERCENT 1 128	CENT 129
	P & C Waste	Pet		100 PER 6.3	100 PERCENT 6.2 98	100 PERCENT 5.6 108	100 PER 5.1	100 PERCENT 5.7 101	100 PEP 6.3	100 PER 6.4	100 PER 6.0	100 PERCENT 5.5 123	100 PERCENT 5.7 123	100 PEP 6.1	100 PERCENT 3.9 129
	Color w Stock a Yel	81		3	3	3	3	3	3	3	3	3 1	3	3	3
	Raw Gra	읾		2	-	-	-	-	7	1	1	1	1	2	-
	S.A. Non- Lint	Pct		3.4	2.6	2.7	2.2	2.5	3.0	3.5	3 • 2	2.9	3.0	3.2	1.6
ts	Elon- gat'n 1/8"	Pct		NE 16 7.0	NE 16 6.7	PINE 16 6.6	APINE 16 6 7.6	APINE 16 8 6.6	4-42	5.6	5.5	5.7	5.6	5.5 5.2	SJ-1 5.4
st Results	er gth 1/8"	G/tex		DELTAPINE 22.7 7.	DELTAPINE 22.3 6.	DELTAPI 22.8	DELTAPI 23.6	DELTAPI 22.8	ACALA 4 27.3	ACALA S 26.6	ACALA S 25.9	ACALA S 26.4	ACALA S 26.1	ACALA S 25.2	ACALA S 27.2
Fiber Test	Fiber Strength Zero 1/	Mpsi		83	948	98	83	85	66	96	96	96	96	96	101
14	Mike	Rdg		5.0	4.9	4.5	4.5	7.	4.6	4.2	4.0	4.0	. 4 . 3	4.1	4.4
	ral graph Unif.	Pet		45	7	7 7	77	7 7	47	45	43	94	45	94	4 6
	Digital Fibrograph 2.5% Unif	티		1.07	1.08	1.08	1.11	1.06	1.07	1.14	1.10	1.11	1.14	1.13	1.13
	Stple	328	AREA	35	34	34	35	34	35	36	35	36	36	36	35
Area,	ber			41	31	31	31	31	41	41	¥ 4 1	31	31	41	31
Production Area, Classification	Sample Number No Grade		WESTERN ARIZONA	8UCKEYE 1 SLM	MARICOPA 2 MID	PARKER 2 MID	SAFFORD 1 MID	YUMA 1 MID	CALIFORNIA ARVIN 2 SLM	BAKERSFIELD 1 SLM	8UTTCNWILLOW 1 SLM	CORCGRAN 1 MID	LOST HILLS 1 MID	TULARE 1 SLM	VISALIA 1 MID

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970 --- (Continued)

	Spin. Poten-	tial			56	99
					16	16
rns	Imprfect'ns	22s or 27 tx No			17	21 16
rded Ya	nce	2 tx No			120 100 17 16	80
ts - Ca	Appearance Index	27 tx I			120	110
Processing Test Results - Carded Yarns	tion	22s or 50s or 22s or 50s or 22s or 50s or 22s or 50s or 27 tx 12 tx 27 tx 12 t			5.6 4.0	1.1
sing Tea	Elongation	22s or 27 tx Pct			5.6	5.9 4.7
Proces	Strength	2s or 50s or 22s o 7 tx 12 tx 27 tx Lbs Lbs Pet			33	45
	Stren	22s or 27 tx Lbs		1	104 104	CENT* 124
	S.A. Raw Stock P & C Non-			1	100 PERCENI 3 5.1 104	100 PERCENT* 3 4.9 124
	Color w Stock			,	. K	
	Co	Lint Gra Yel			1	7
					2.1	2.3
s s	Elon-	1/8" Pct			23.7 6.1 2.1	10PICALA 25.6 6.0 2.3 1
st Results		1/8" Gage G/tex			DELTAPINE 16 23.7 6.1	HOPICALA 25.6
Fiber Test	Fiber Strength	Zero Gage Mpsi			88	96
	:	Mike Rdg	$\overline{}$		4.5	4.3
	Digital Fibrograph	Unif.	AREA (Continued)		43	45
	Digital Fibrogra	Stple 2.5% span 32s	00)	$\overline{}$	31 34 1.05	31 36 1.08
		Stple 32s	AREA	inued	34	36
Area,	- 1			-(Cont		31
Production Area,	& Sample Number	No Grade Name & Code	WESTERN	CALIFORNIA (Continued)	WESTMORLAND 1 MID	WEST TEXAS EL PASO 2 MID

100 percent selected for tests, less than 100 percent in the area.

Table 4 -- Cotton, American upland long staple: Quality characteristics by production areas, crop of 1970

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	,						-12	-					
	Spin.	roten- tial	일		57	63	72	10	99		89	70	18
	t'ns	50s or 12 tx	월		21	0 W	15	16	25	σ.	10	32	31 18
Yarns	Imprfect'ns	22s or 27 tx	왕		28	12	19	20	31	*	12 6	56 40	35
Carded Ya			울		90	90	90	10	100	001	900	09	06
1	Appearance Index	22s 27	잃		100	110	110	100	120	130	110	70	001
Test Results	tion	50s or 12 tx	Pet		4.2	5.6	5.7	5.4	5.3	2.6	57 57 55	2. C	₹. 10.4
sing Te	Elongation	22s or 27 t x	Pct		N N 0 0	7.0	6.9	1.9	6.8	:	6.9	6.7 6.7	6.2
Processing	th	or 50s or x 12 tx	Ebs		30	39	43	14	6 4	D	51 56	53	50
	Strength	22s or 27 tx	Lbs		93 112	113 127	PERCENT 0 116 7 130	PERCENT 0 114	132	061	135 151	PERCENT1/ 3 140 0 155	PERCENT 4 132 9 151
	P & C	Comber Waste	Pet		100 PERCENT 10.1 93 18.0 112	100 PERCENT 8.0 113 15.7 127	100 PER 8.0 13.7	100 PER 9.0	9.0	10.3	100 PERCENT 6.7 135 14.7 151	100 PER 8.3 15.0	75 PER 7.4 16.9
	tock	Yel	일]		* *	3 +	m *	1 2	* ~ *	٠	m #	1 *	m *
	Color Raw Stock	Gra	일		m	8	2	m	m		pud	=	~
	S.A.	Lint	Pet		5.6	80 80	4 ° 4	5.5	5.9		2.3	3.0	ო ო
ts	Elon-	1/8"	Pct		310	310	310	310	0.9		1517C 5.7	1517V 5.2	15170
Fiber Test Results	Fiber	1/8" Gage	G/tex		COKER 23.2	COKER 3	COKER 23.0	COKER 3	24.2		ACALA 27.9	ACALA 3	ACALA 28.8
Fiber Te	Fiber Strength	Zero Gage	Mpsi		80 4	80	8	82	98		06	76	8
		Mike	Rdg		6.4	F • 4	4.4	4.2	4.3		4.0	3.7	4.0
	al aph	Unif.	Pet		45	24	9	45	44		45	91	45
	Digital Fibrograph	2.5% span	된		1.14	1.14	1.18	1.17	1.14		1.15	1.21	1.14
		Stple	32s	AREA	3	80 10	36	35	35	AREA	37	3.8	37
rea,	er		•	A	52	F 41	A 41	A G 51	09	A	31	41	0N 41
Production Area,	& Sample Number	No Grade Name & Code		SOUTHEASTERN	ALABAMA · ORRVILLE 3 LM LT SP	GEORGIA . DANIELSVILLE 2 SLM	NORTH CAROLINA SHELBY 2 SLM	SOUTH CAROLINA RIDGE SPRING	4 SGO PLUS	WESTERN	NEW MEXICO CARLSBAD I MID	DEXTER 1 SIM	WEST TEXAS FORT STOCKTON I SLM 4

* Comber Waste and Combed Yarn Data. 1/ 100 percent selected for tests, less than 100 percent in the area.

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